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TD2020-98062260

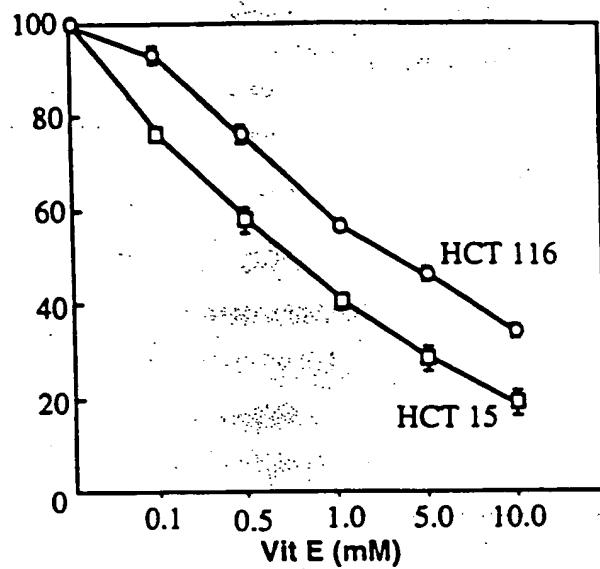
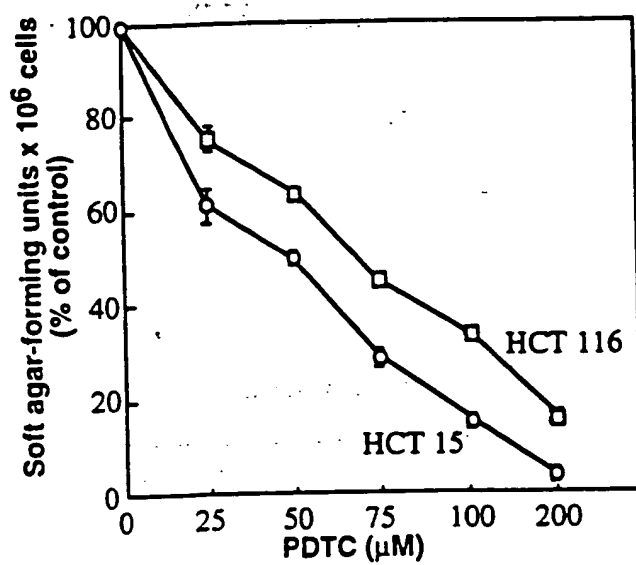


FIGURE 1A

102020-98062260

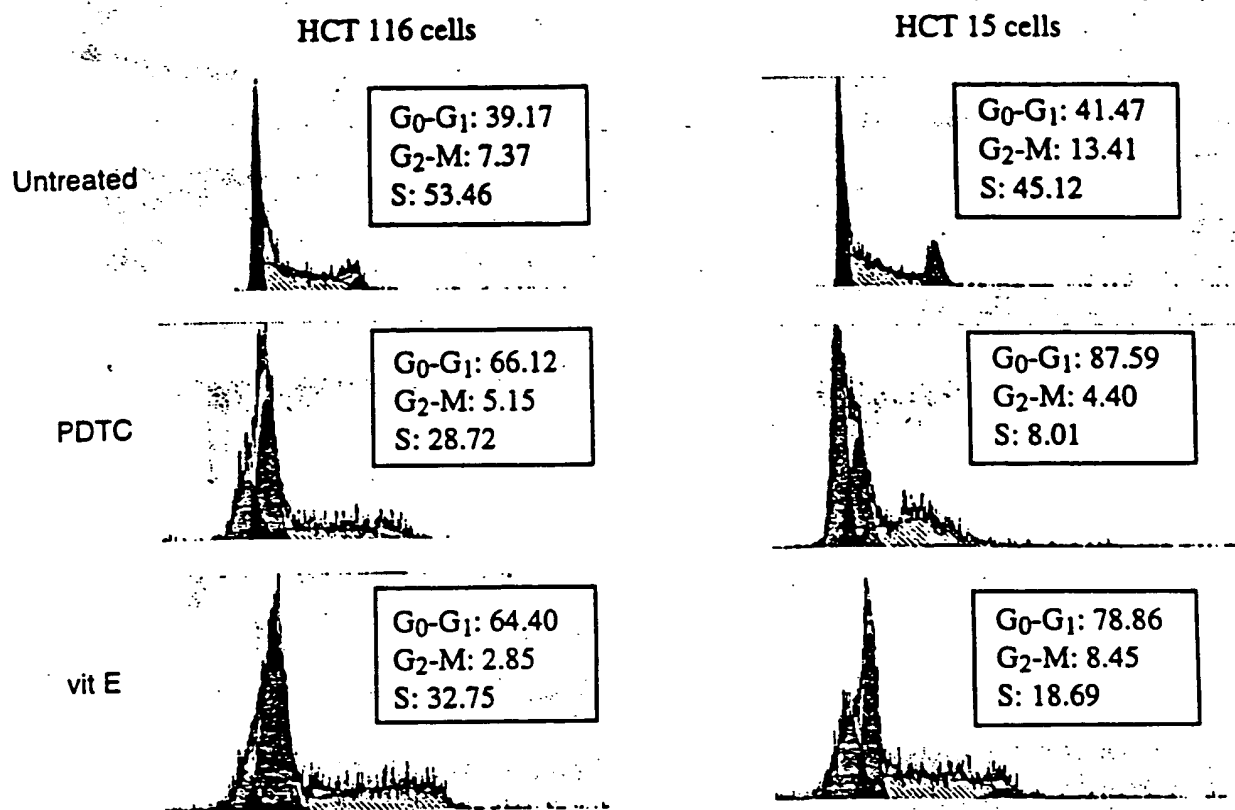


FIGURE 1B

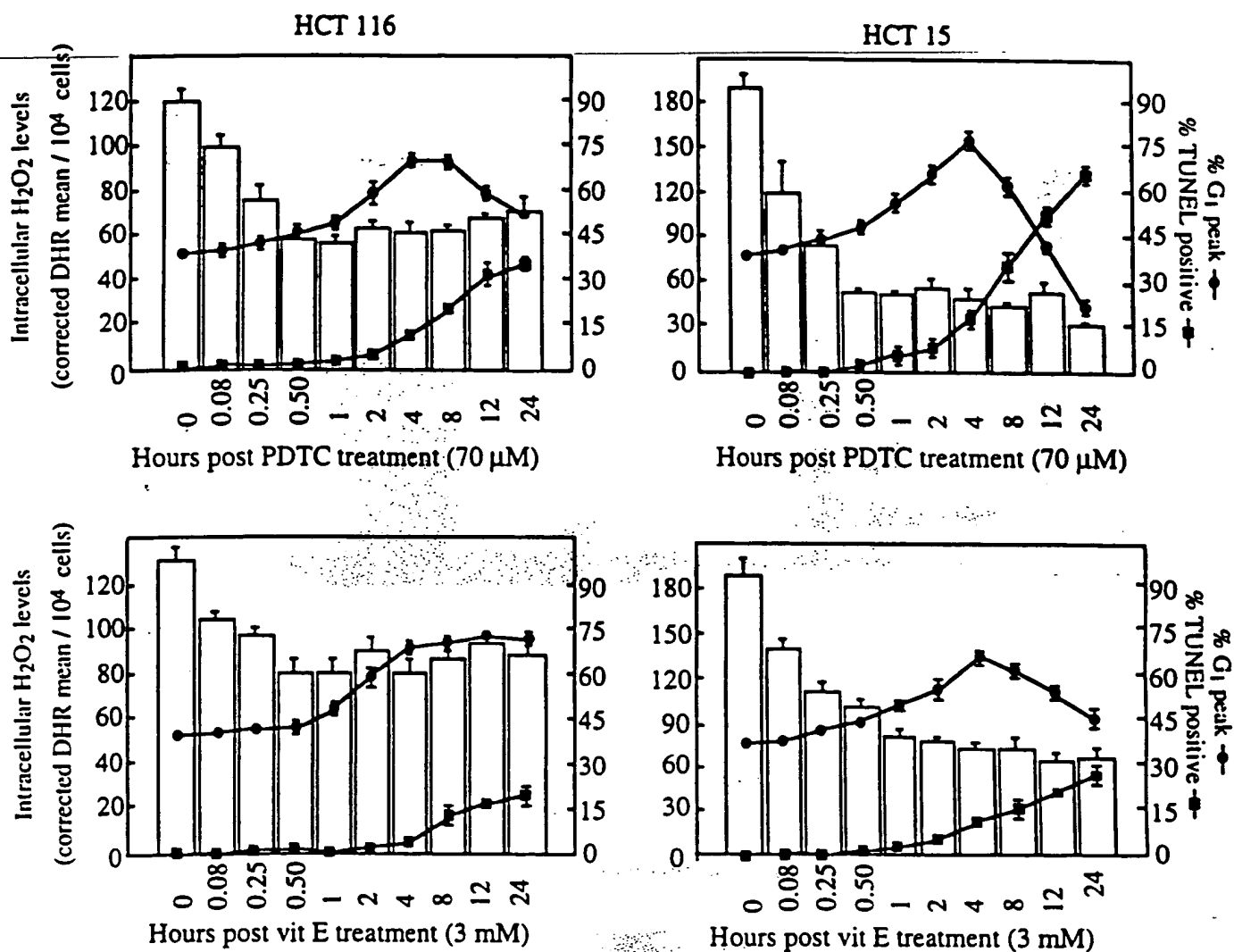


FIGURE 1C

Figure 1D

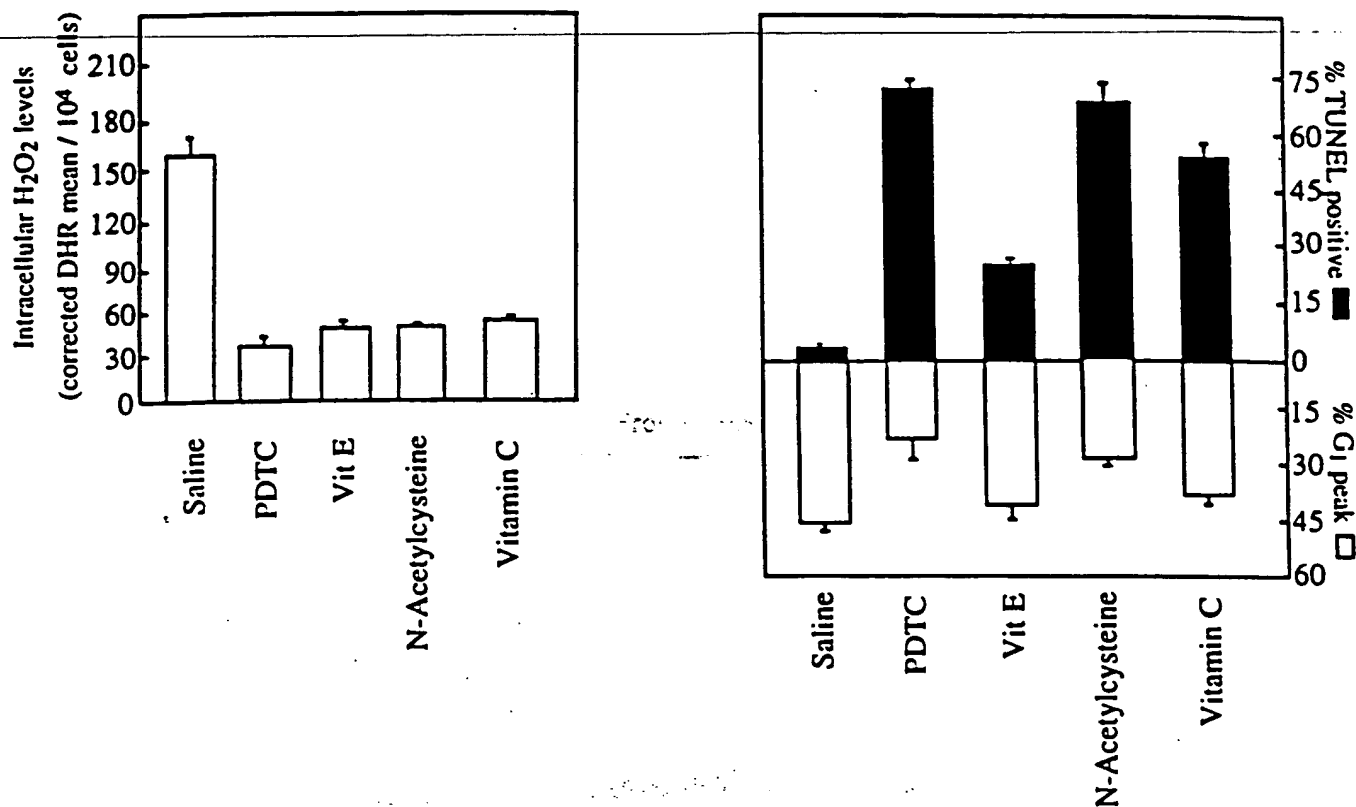


Figure 1E

Sensitization of HCT 116 and HCT 15 colon cancer cells to chemotherapeutic agents by PDTC (70 μ M) or vitamin E (3 mM)

Cell line	Drug	IC ₅₀ (μ M) ^a		
		- Antioxidant	+PDTC	+vitamin E
HCT 116	5FU	3.8 (\pm 0.21)	<u>1.5</u> (\pm 0.29)	<u>1.7</u> (\pm 0.20)
	Doxorubicin	0.32 (\pm 0.07)	<u>0.09</u> (\pm 0.08)	<u>0.13</u> (\pm 0.05)
HCT 15	5FU	11.4 (\pm 0.11)	<u>1.01</u> (\pm 0.09)	<u>1.4</u> (\pm 0.10)
	Doxorubicin	1.51 (\pm 0.07)	<u>0.11</u> (\pm 0.05)	<u>0.17</u> (\pm 0.04)

^aThe concentration of 5-FU or doxorubicin required to reduce soft agar colony formation by 50% (\pm s.e.m.). Underscored: significantly different from -antioxidant group ($P < 0.01$), as determined by analysis of variance with multiple comparison adjustment.

Figure 2A

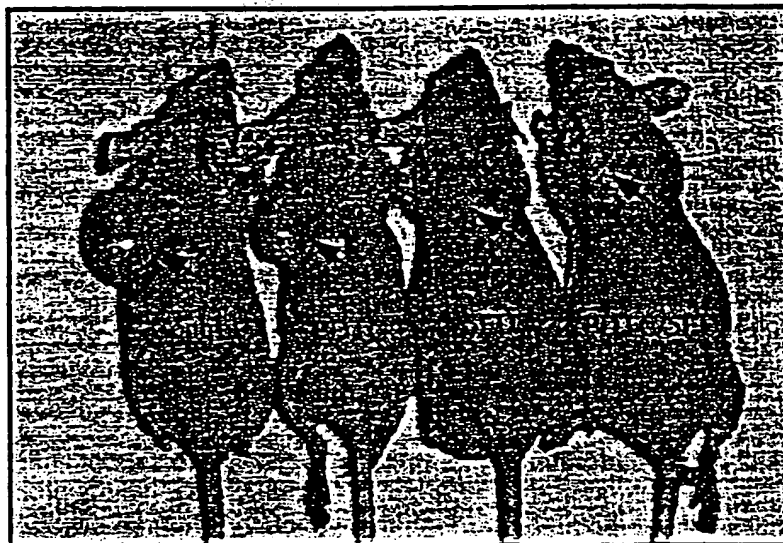
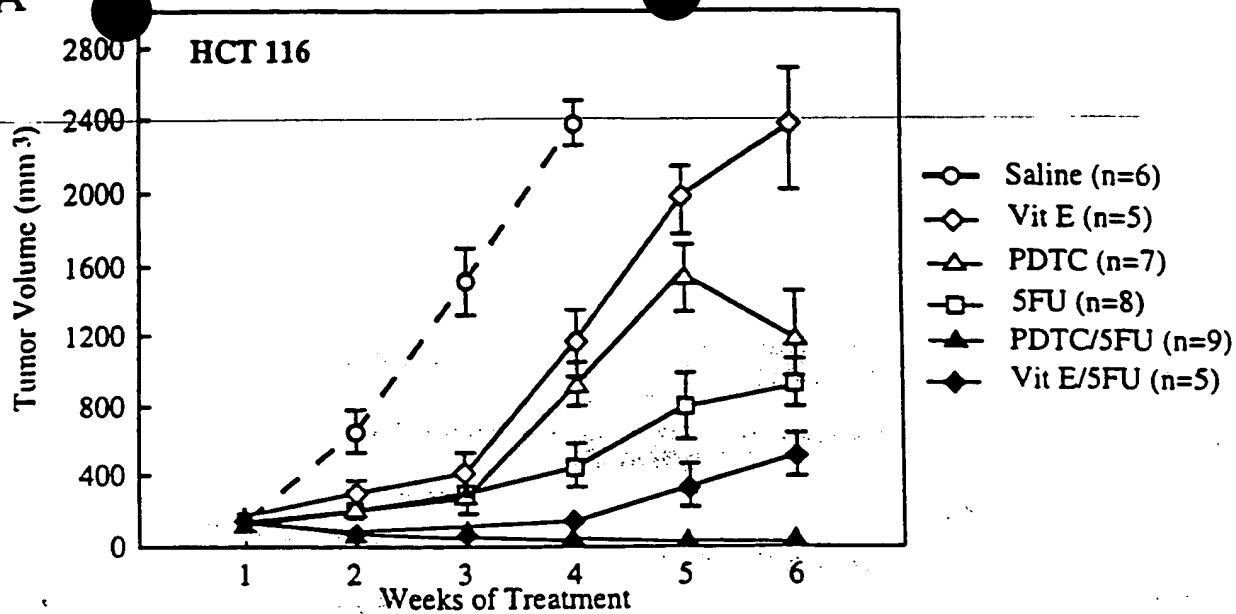


Figure 2B

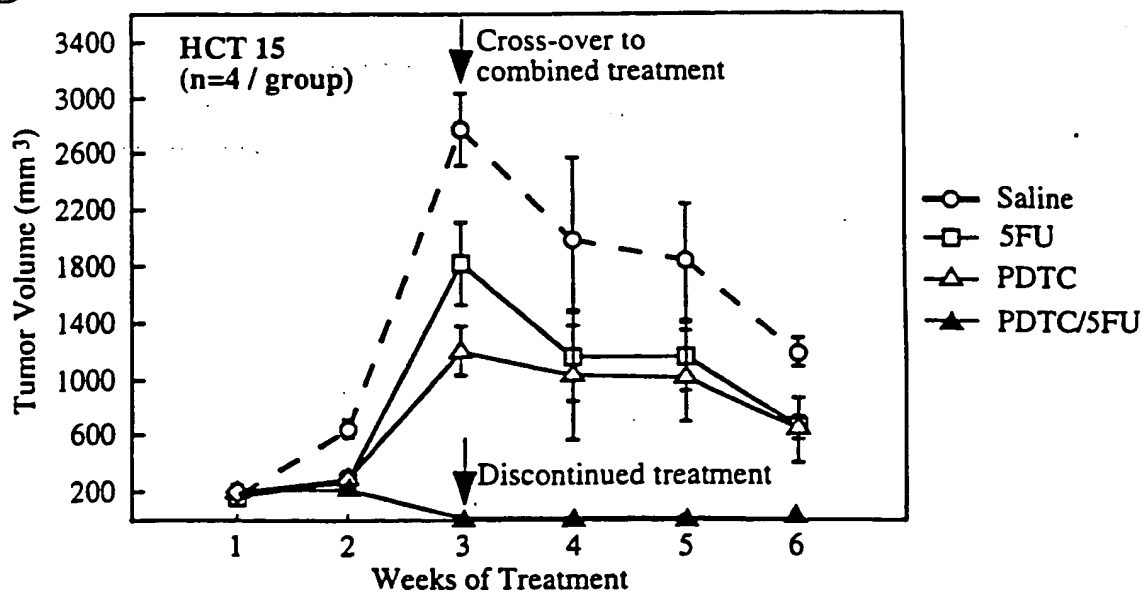


Figure 3A Western blot

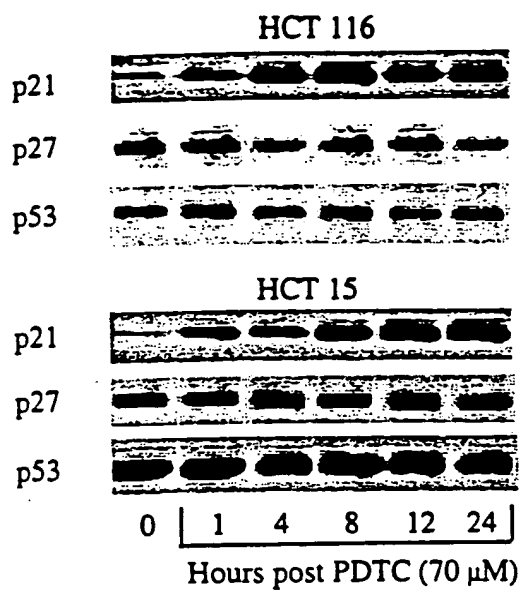


Figure 3B Northern blot

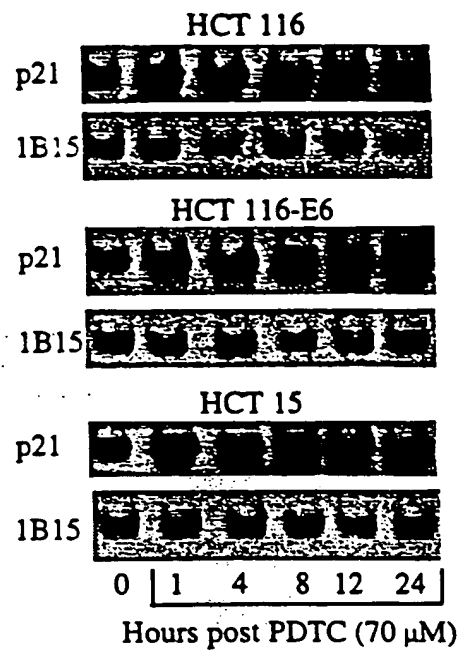


Figure 3C

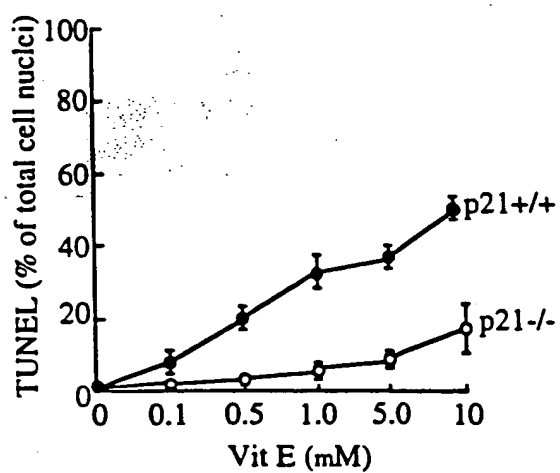
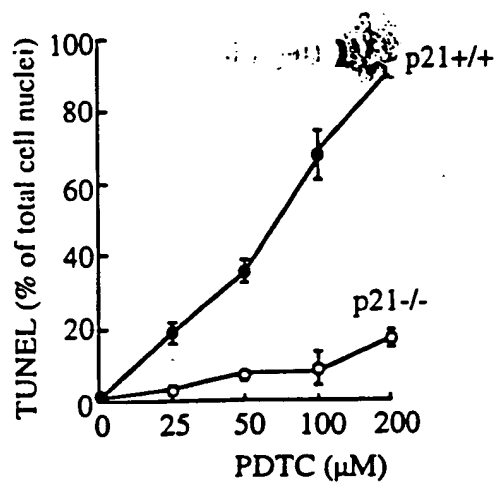


Figure 4A

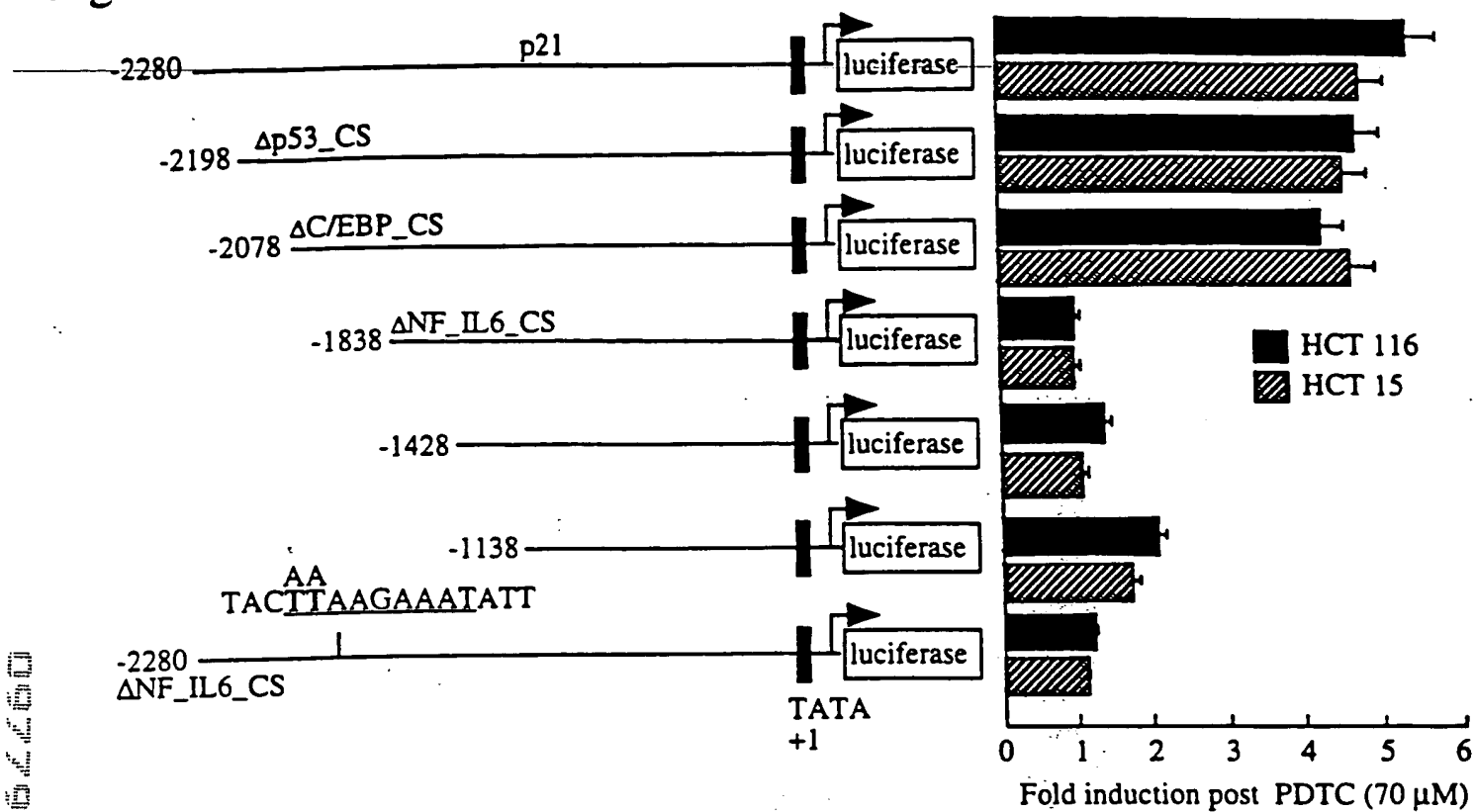


Figure 4B

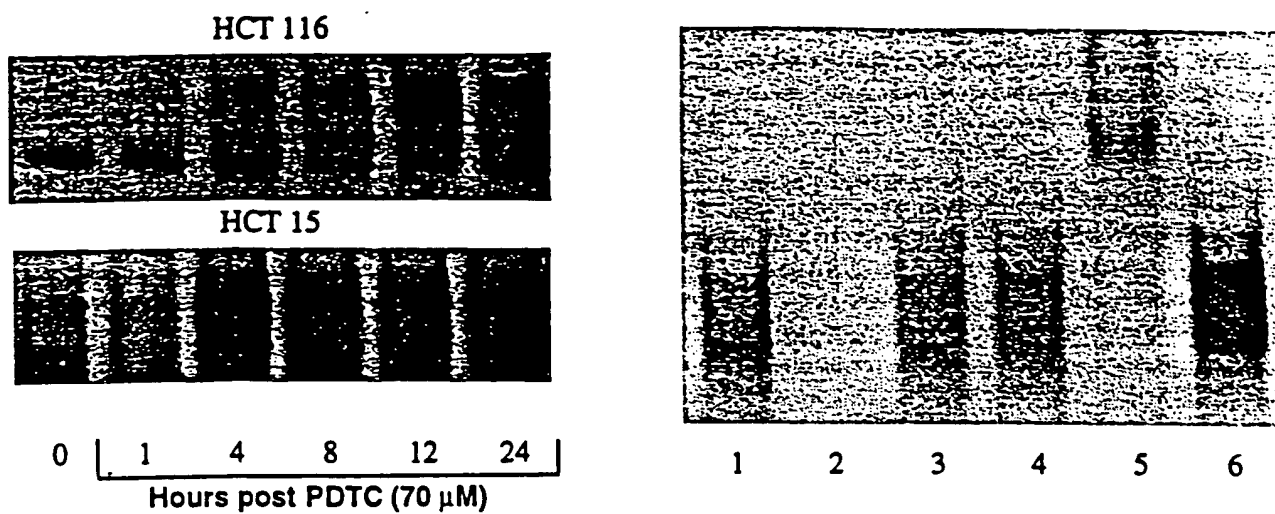


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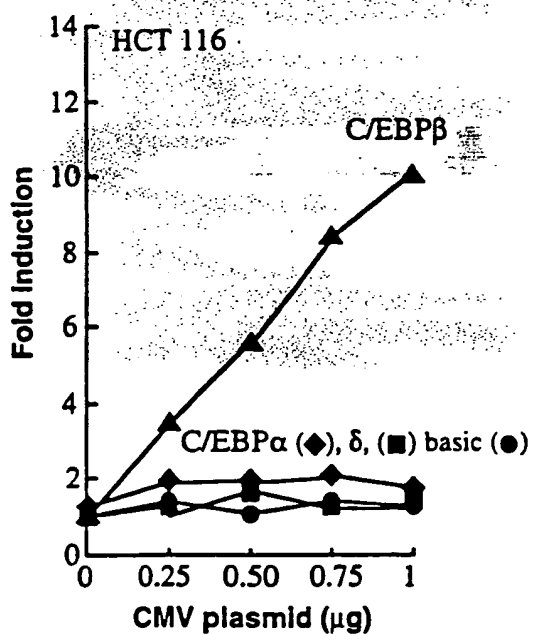


Figure 4D

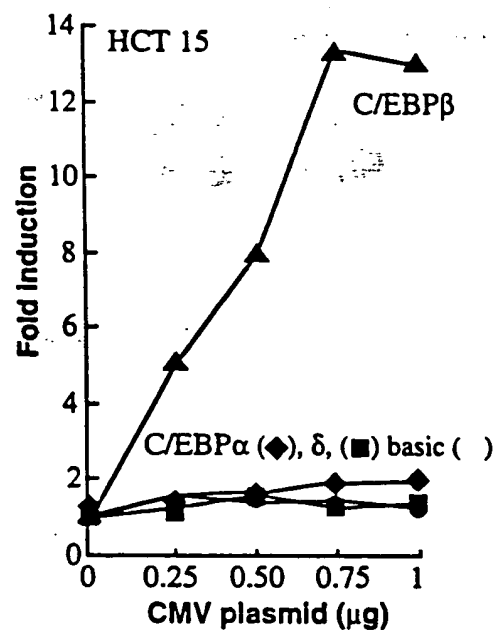


Figure 4E

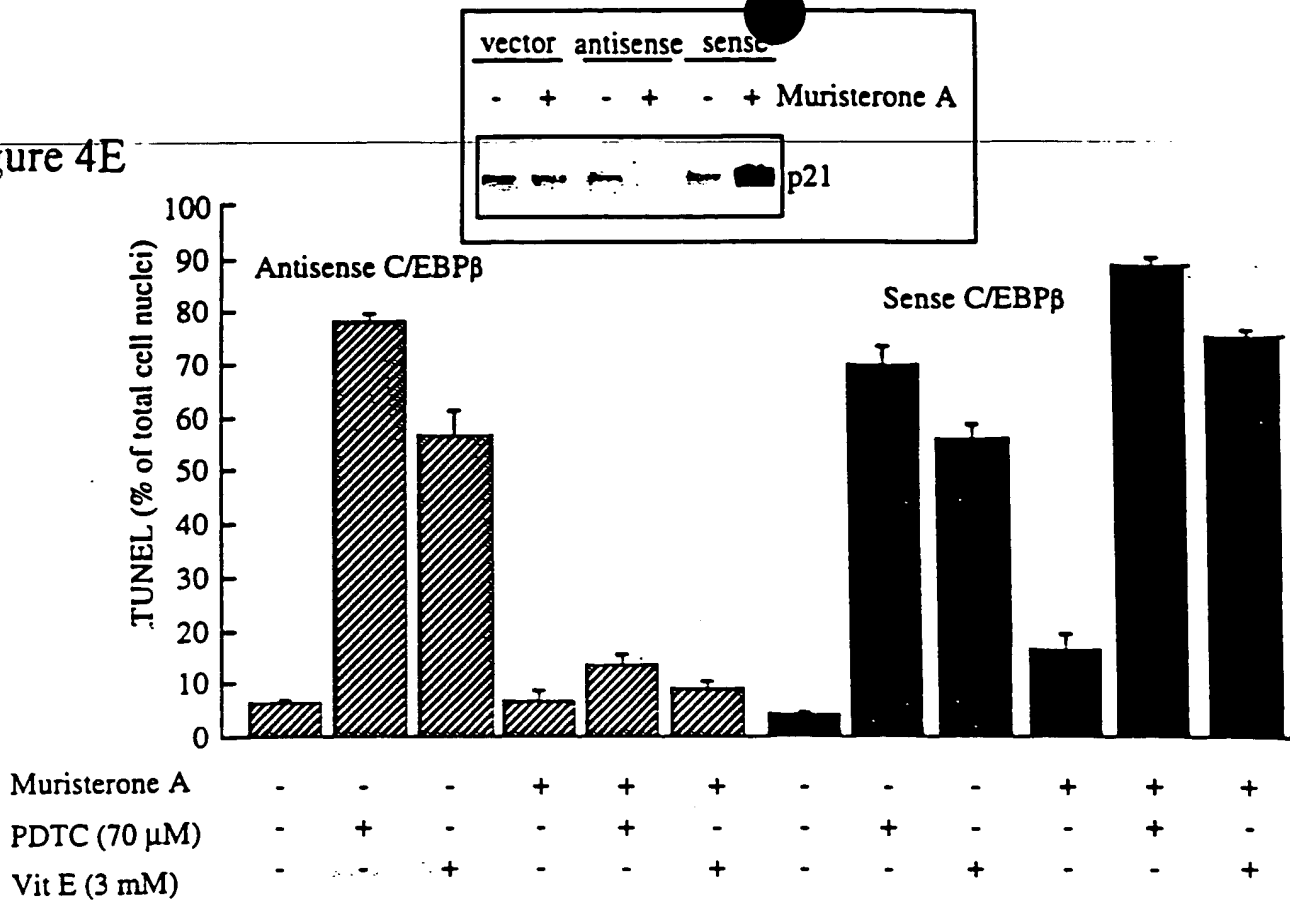
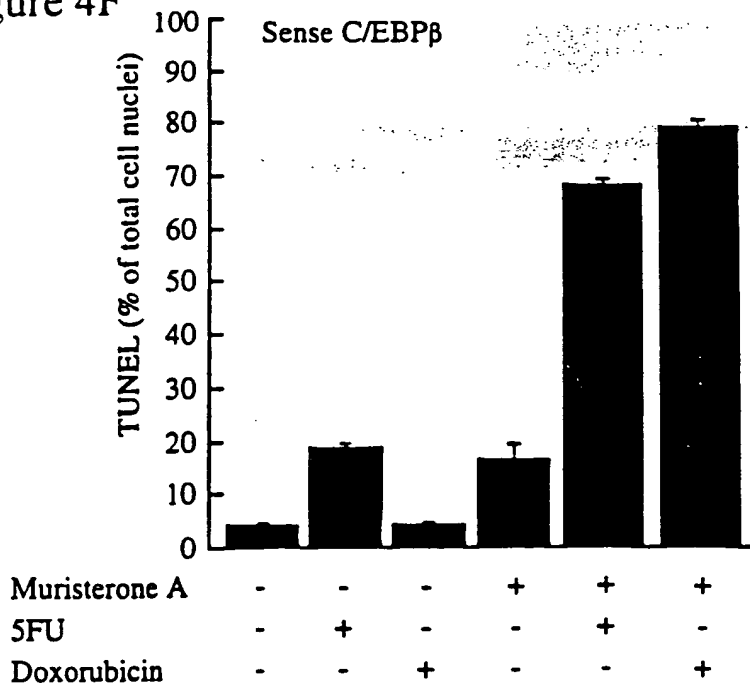


Figure 4F



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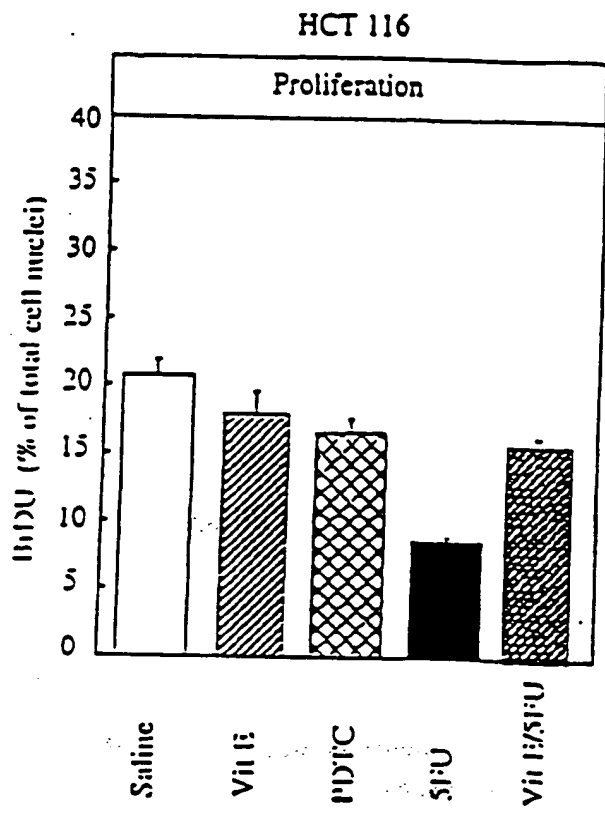


Figure 5A

0979036 000700

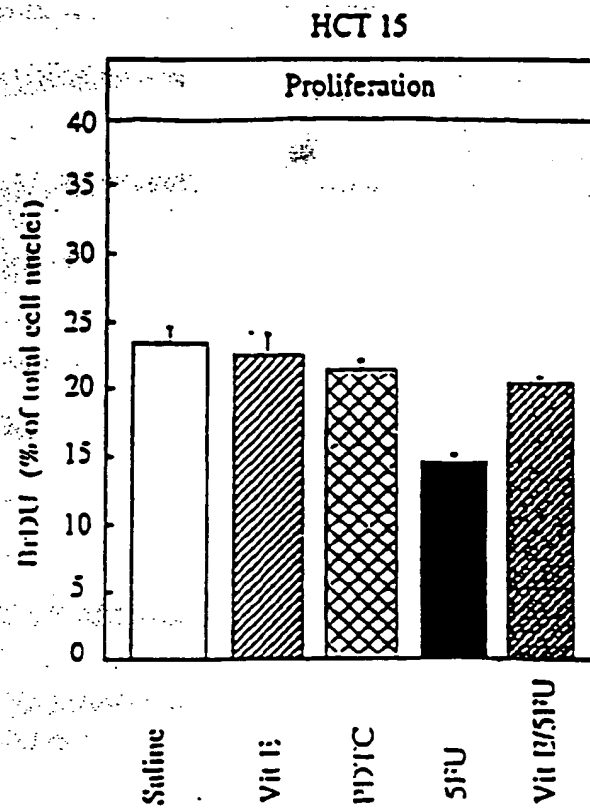


FIGURE 5B

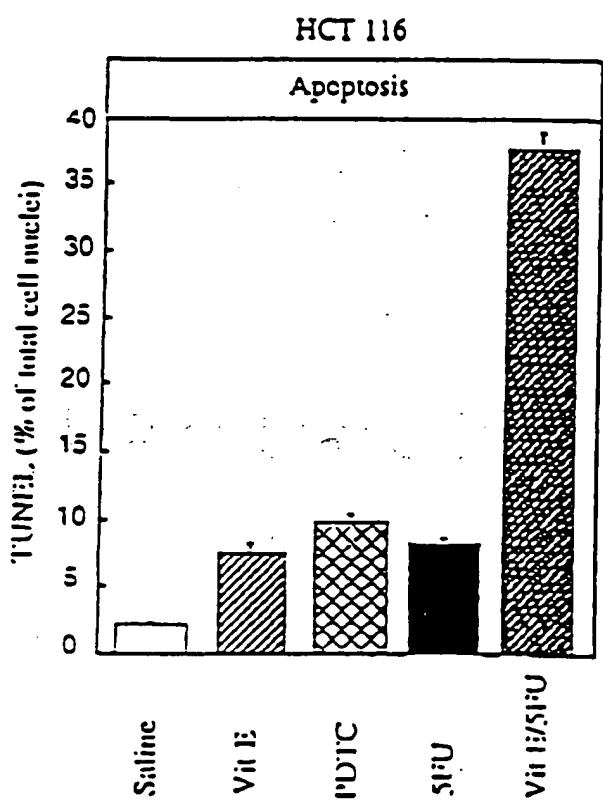


FIGURE 6A

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T02020-98062250

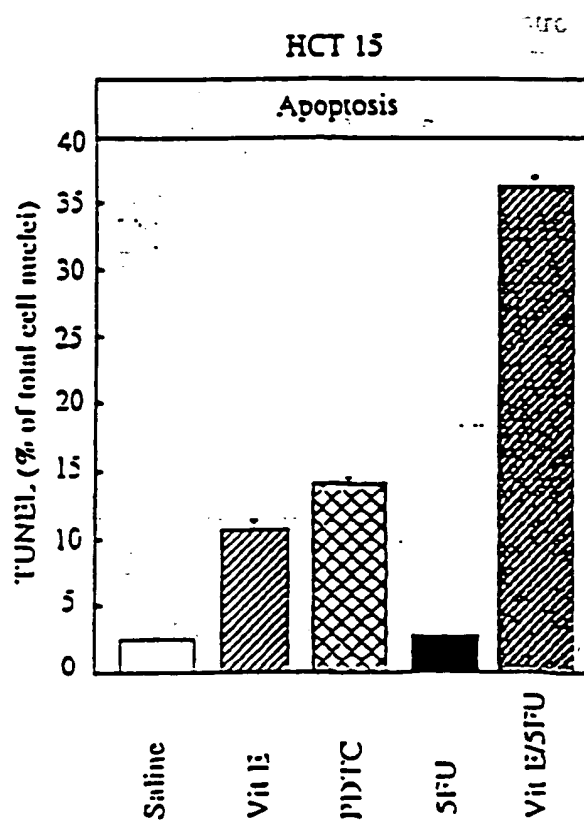


FIGURE 6B

104020-98062260

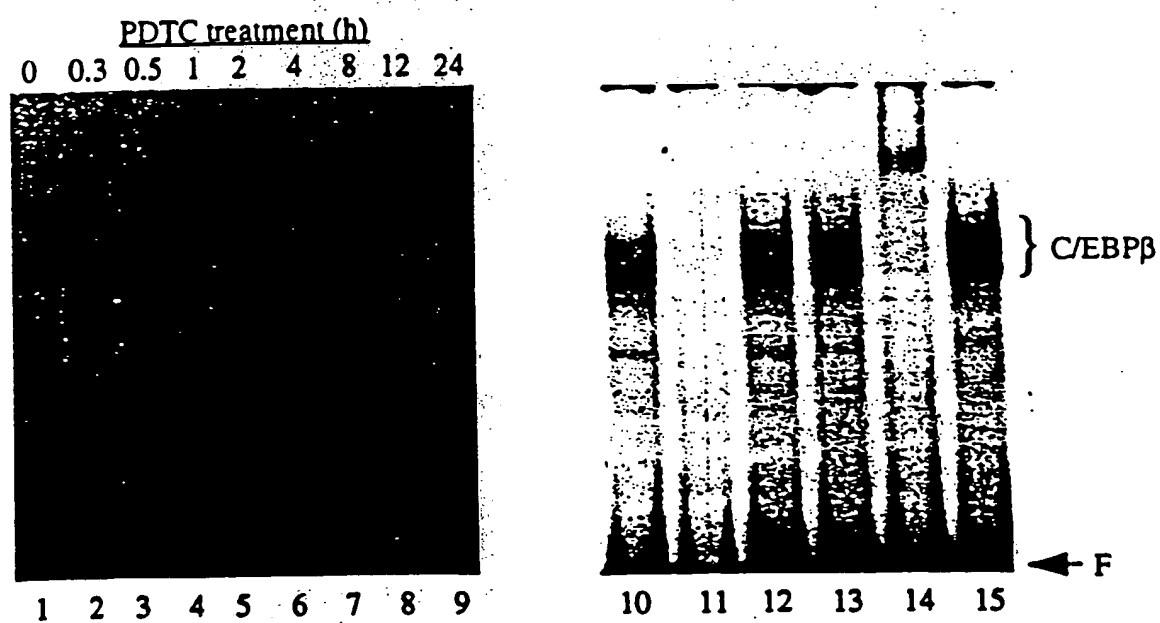


Figure 7A

FOI 020-9306260

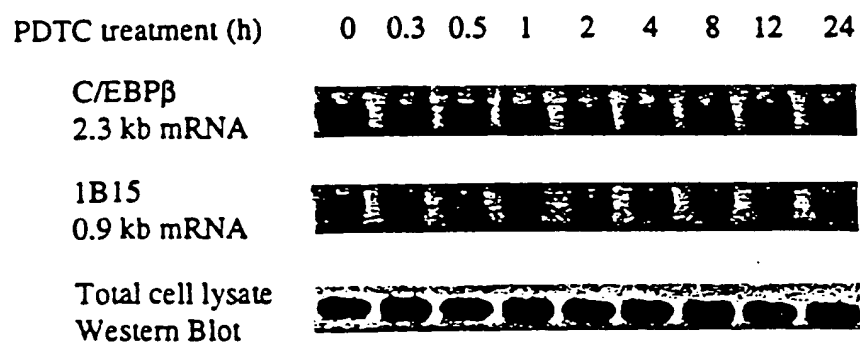


Figure 7B

102020-9806260

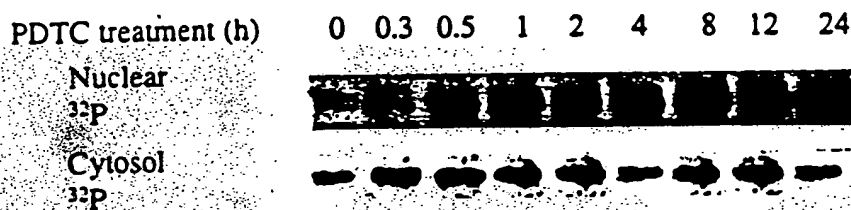
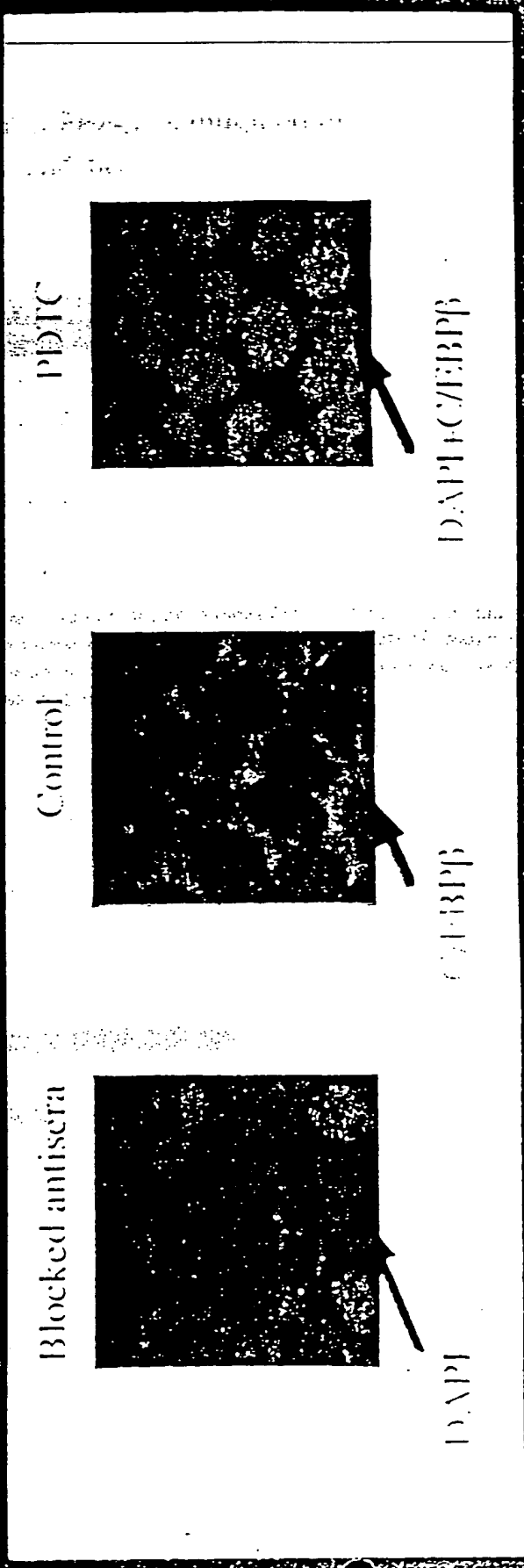


Figure 7C

Figure 7D

PDTC Treatment results in Nuclear Translocation of C/EBP β



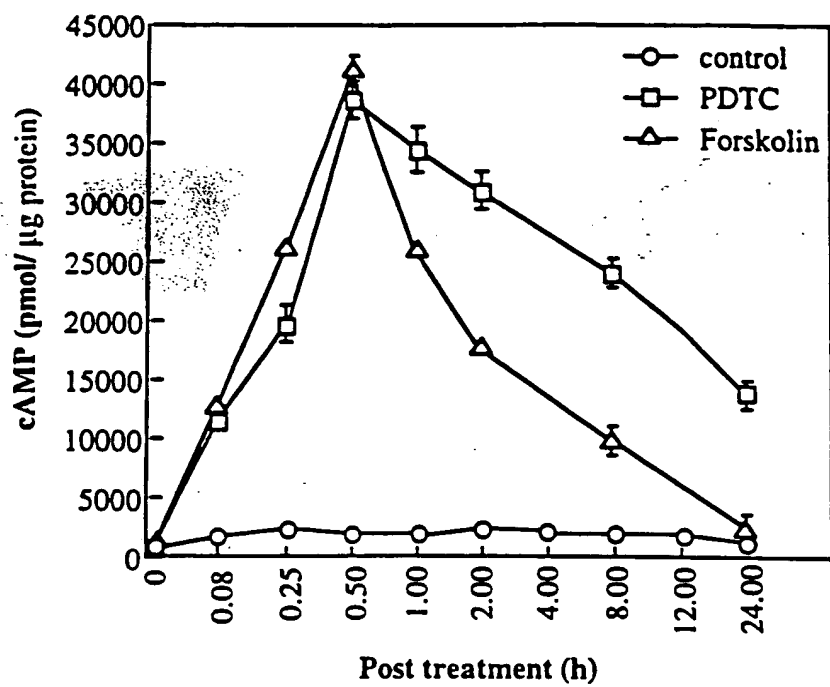


FIGURE 8A

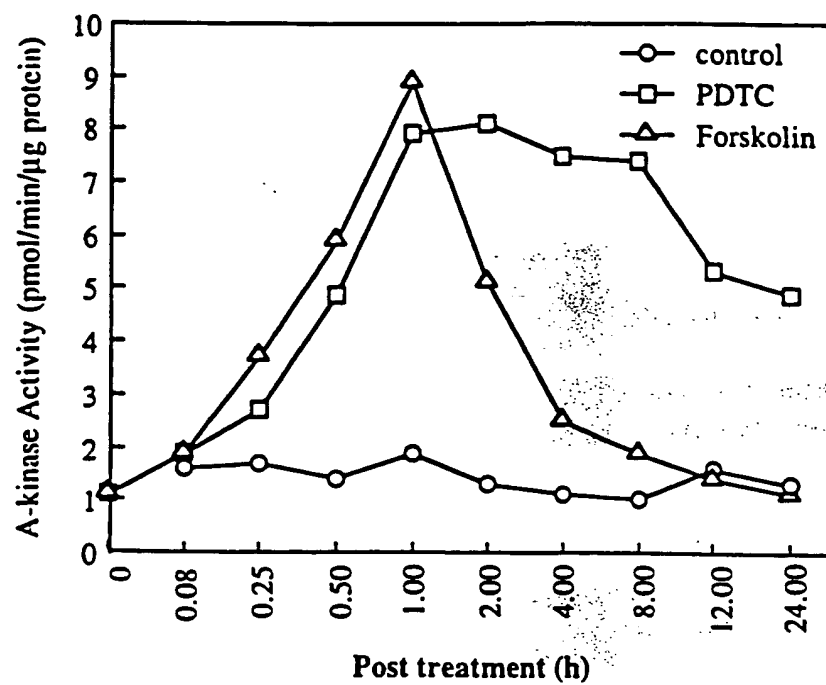


FIGURE 8B

Figure 9A

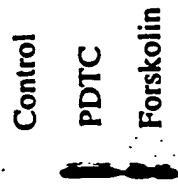
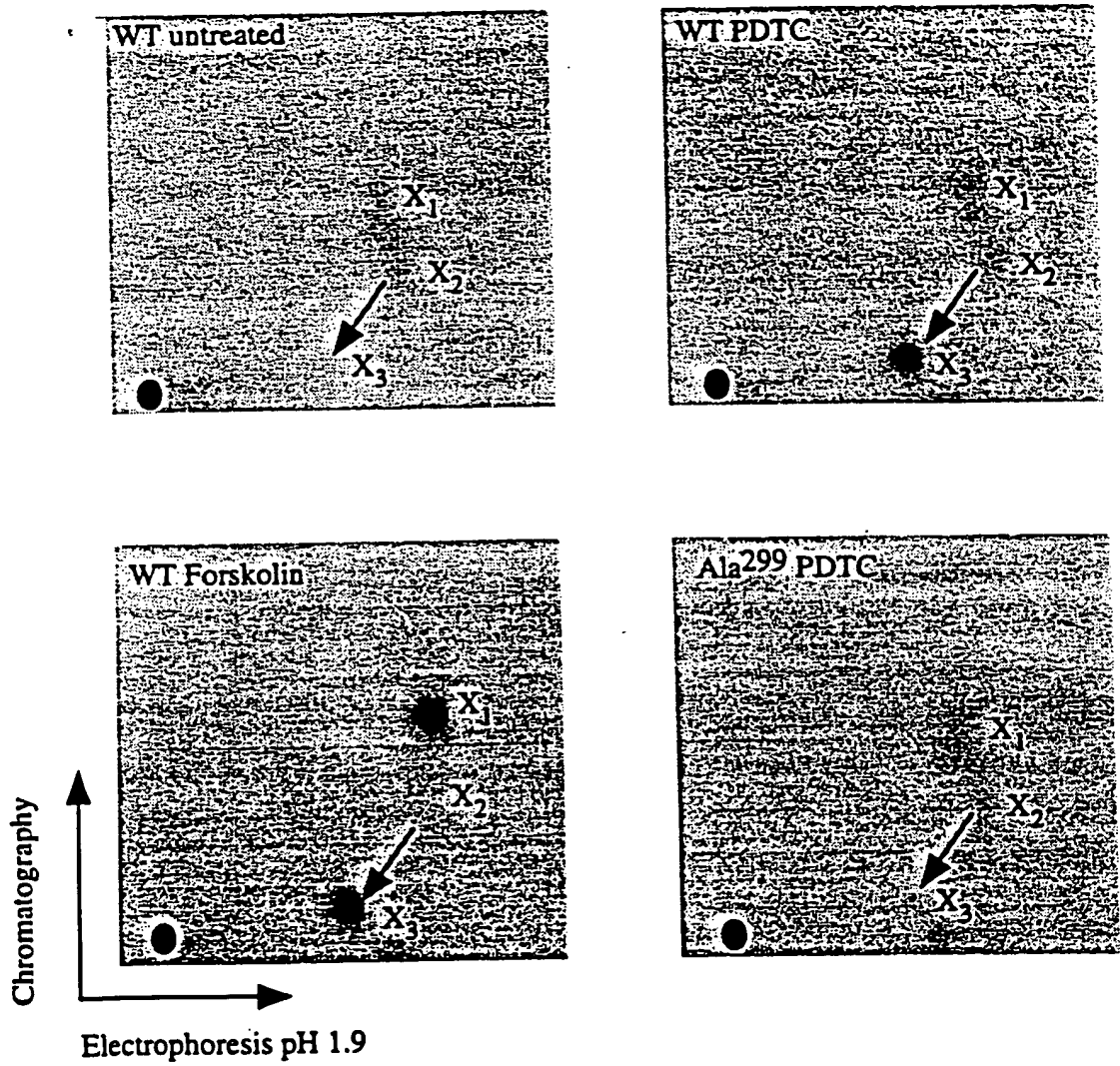
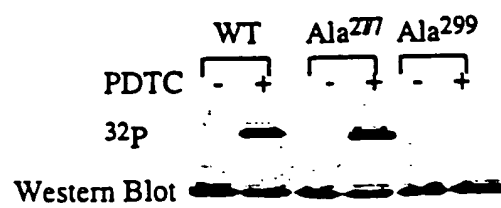


Figure 9B Trypsin cleavage



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Figure 9C



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Figure 10A

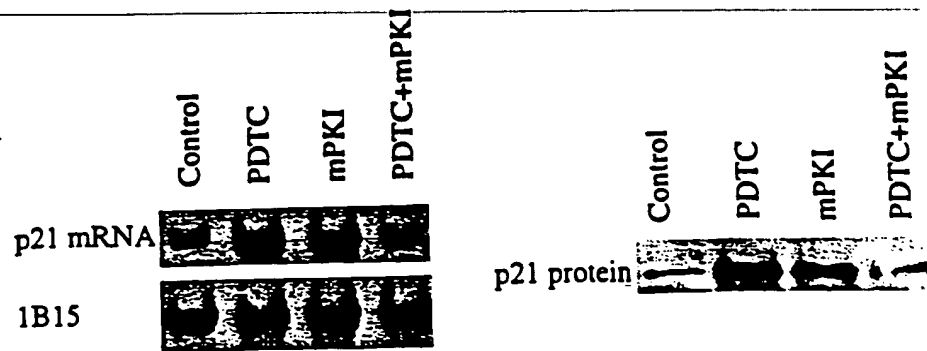


Figure 10B

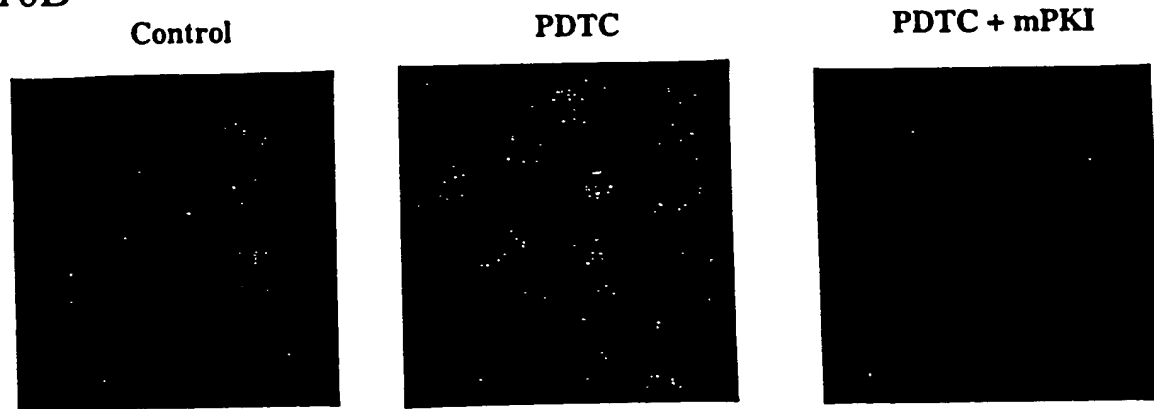
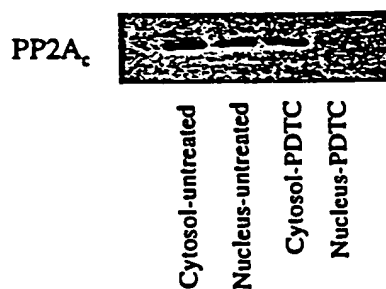


FIGURE 11

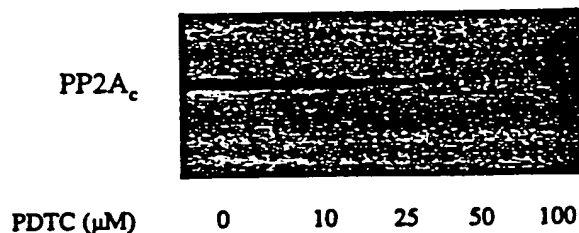
Carboxymethylation of PP2Ac is Inhibited by Antioxidants



DKO-1 cells were incubated in serum-containing media containing [methyl-³H]S-adenosyl methionine and/or 70μM PDTC for 3 hours. Cytosolic or nuclear fractions were prepared and C/EBPβ immunoprecipitated using standard methods. Antibody/antigen complexes were resolved by SDS-PAGE and the presence of PP2Ac was detected by fluorography (overnight).

FIGURE 12

Antioxidants Inhibit Methyltransferase Activity Against PP2Ac



PP2A_{AC} was incubated in the presence of [methyl-³H]S-adenosyl methionine, increasing concentrations of PDTC and partially purified rat methyltransferase for 30 min at 37C. The reaction was terminated by the addition of SDS-sample buffer. Samples were resolved by SDS-PAGE and the presence of methylated PP2A dimers visualized by fluorography.

PDTC Inhibits PP2A, but not PP1, Activity

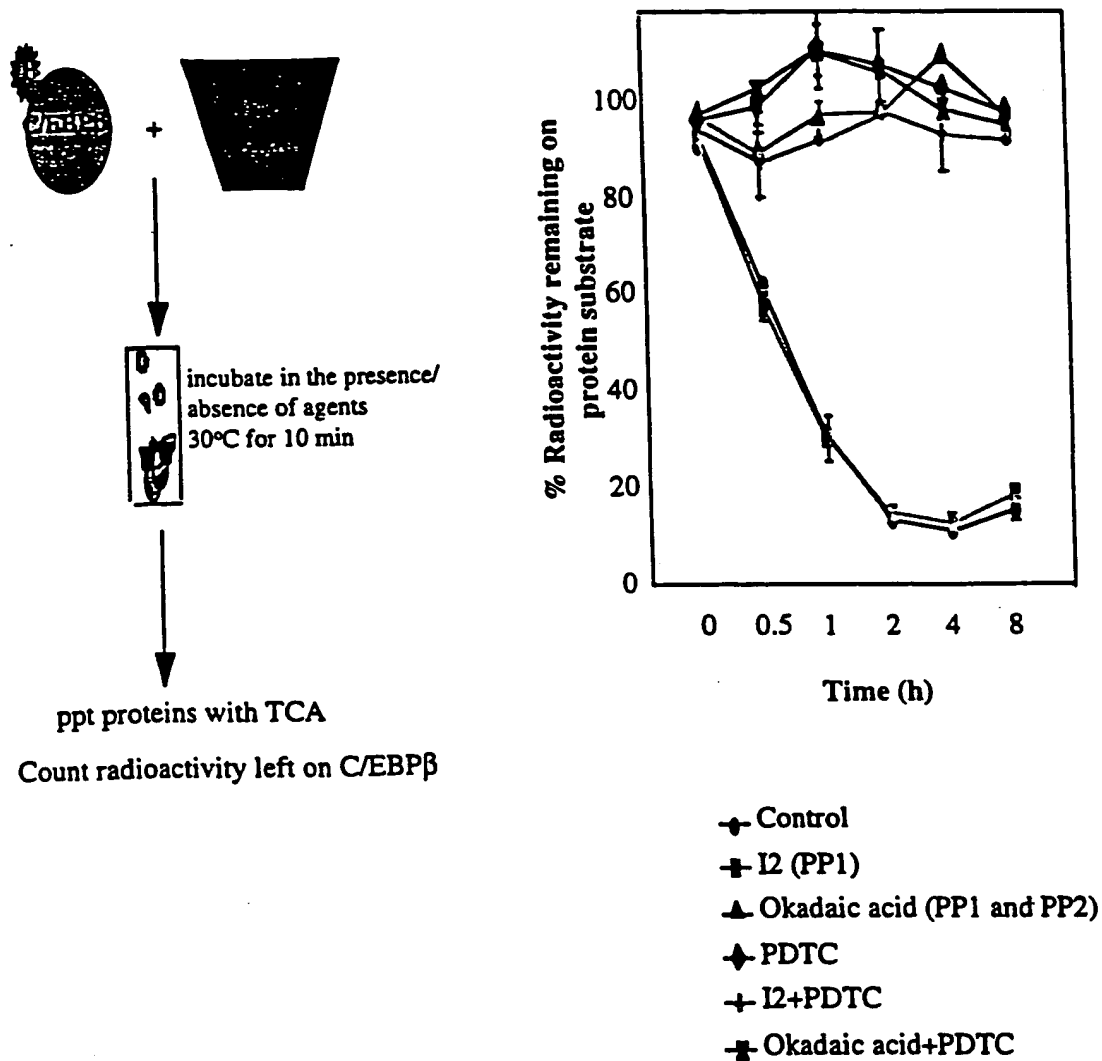


Figure 13

Figure 14 - C/EBP β and PP2Ac are components of isolated Methyltransferase activity

